

ANNOUNCEMENTS 1967-68



North Central Regional Campus

Westville

PURDUE UNIVERSITY BULLETIN

University Calendar

1967

| SEPTEMBER | | | | | | | NOVEMBER | | | | | | |
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| | | | | | | | 31 | | | | | | |

1968

| JANUARY | | | | | | | MAY | | | | | | |
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| 28 | 29 | 30 | | | | | 25 | 26 | 27 | 28 | 29 | 30 | 31 |

First Semester

September 13
Classes begin

November 21
Thanksgiving vacation begins

November 27
Classes resume

December 20
Christmas vacation begins

January 3
Classes resume

January 13
Classes end

January 16
Final examinations begin

January 24
Semester ends

Second Semester

February 5
Classes begin

March 30
Spring vacation begins

April 8
Classes resume

May 25
Classes end

May 28
Final examinations begin

June 5
Semester ends

June 9
Commencement

Summer Sessions, 1968

June 17-August 9
Regular 8-week Session
No classes held on July 4

June 10-28
First Intensive Session

July 1-19
Second Intensive Session

July 22-August 9
Third Intensive Session

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North Central Regional Campus

Announcements for the Year 1967-68

PURDUE UNIVERSITY



LAFAYETTE, INDIANA

PUBLISHED BY THE UNIVERSITY

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PURDUE UNIVERSITY

Regional Campus Administration

Lafayette, Indiana

OFFICERS OF ADMINISTRATION AND INSTRUCTION

Administrative Officers

FREDERICK L. HOVDE, B.Ch.E., M.A., D.Sc., LL.D., D. Eng.,
D.H.L., D.C.L., Pd.D.....President

LYTLE J. FREEHAFFER, A.B.....Vice President and Treasurer

PAUL F. CHENEA, Ph.D.....Vice President for Academic Affairs

FREDERICK N. ANDREWS, Ph.D., D.Sc.....Vice President for Research and
Dean of the Graduate School

DONALD R. MALLETT, Ph.D.....Vice President and Executive Dean

C. H. LAWSHE, Ph.D.....Vice President for Regional Campus Administration
and Dean of Continuing Education

Regional Campus Administration

G. W. BERGREN, M.S.M.E.....Administrative Dean for Academic Affairs

N. M. PARKHURST, M.S.....Registrar

J. E. THATCHERAssistant Comptroller

D. A. SCOTT, Ph.D.....Administrative Dean for Development

H. W. WHITE, M.S.....Director of Admissions

North Central Regional Campus Administrative Staff

ROBERT F. SCHWARZ, M.A.....Dean and Director

JAMES R. BLACKWELL, M.B.A.....Assistant Dean

DAVID P. KONZELMANN, M.S.....Admissions-Registration Officer

WILLIAM C. BOYD, M.Mus.....Coordinator of Continuing Education
and Student Affairs Officer

JOHN K. BLACK, B.S.I.M.Business Administrator

General Information

PURDUE UNIVERISTY is the Indiana link in a nationwide chain of 68 land grant colleges and universities. It is a people's university grown out of the demand of the American people that higher education be the birthright of the many, not the privilege of the few.

Long preeminent in agriculture, engineering, and science, Purdue has more recently become strong in the humanities and technology.

LOCATION

Purdue University has, in addition to its main campus in West Lafayette, established a series of regional campuses for the purpose of offering educational opportunities in the major population areas of Indiana. The new North Central Regional Campus is an outgrowth of the former Barker Memorial Center which was located in Michigan City. The North Central Campus serves communities in the north central part of the state. It is located on a 200-acre site at the junction of the Indiana East-West Toll Road and U. S. 421, at Westville.

HISTORY

Following World War II Purdue University started offering courses in facilities loaned the university by the Michigan City and LaPorte city schools. The programs in each of these areas grew and in 1948 the Barker Welfare Foundation made available to the university the old John Barker mansion. All of the area classes were consolidated in this fine old structure in the spring of 1949. Through the 1950's enrollments at the Barker Memorial Center continued to grow, as did the population of the north central region of the state. By the early 1960's it was evident that this part of the state was due for a population boom and significant industrial expansion and Purdue began to make plans for a new regional campus that could more adequately serve the area.

In May of 1962 Purdue University, through the Ross-Ade Foundation, purchased 160 acres in LaPorte County at a location that could best serve the Tri-City area of LaPorte, Michigan City and Valparaiso.

With the site available, serious planning started on the development of the first building for the new campus. This building, containing 90,000 square feet will provide modern academic facilities when it opens its doors in September of 1967.

ORGANIZATION

The North Central Regional Campus operates as an integral part of Purdue University. Faculty members hold their appointments in Purdue departments and teach courses under departmental control. Course numbers and content are the same for all campuses of the University. Faculty members receive promotion through a university-wide promotion system.

PROGRAMS

Academic work at many different levels is offered at the North Central Regional Campus. Freshman and sophomore level work, in most of the curricula offered by the University, leading to Bachelor of Science or Bachelor of Arts degrees may be completed at this campus. Also available to area students are programs of the new and growing School of Technology, which lead to an Associate Degree in Applied Science and are usually two years in length. Included in this school is the Purdue University nursing program.

Selected courses and programs at the graduate level for area teachers are available, including courses under the Cooperative Program for Teacher Education for which students may receive credit from any one of the four state universities. Certificate programs varying in length are offered to interested area residents. Also available are a wide variety of continuing adult education activities conducted to meet the needs and requests of the region.

Many students who do not plan to complete a degree at any of the campuses of Purdue University use the North Central Regional Campus to obtain one or two years of credits for transfer to other universities. Because the work taken at the North Central Regional Campus carries regular Purdue University credit, transferability to other universities presents no problem.

Admission

GENERAL REQUIREMENTS

ALL PERSONS wanting to take advantage of the opportunity for higher education at the North Central Regional Campus of Purdue University must file an application for admission. Requests for information and application forms should be addressed to the Office of Admissions, Purdue University, Barker Memorial Center, 631 Washington Street, Michigan City, Indiana 46360. Students pursuing the baccalaureate, associate degree, and credit certificate programs must be high school graduates. A prospective student should complete the application according to instructions and then forward the form to the high school from which he is to be or already has been graduated. The high school should then complete the application and return it to the Office of Admissions, North Central Regional Campus, Junction U. S. 421 and Indiana Toll Road, Westville, Indiana 46391. High school students should make application during their seventh semester of high school, or as soon as possible thereafter. High school graduates should make application immediately. This enables the University fully to evaluate an applicant's eligibility for consideration and to notify the applicant at an early date of the action taken, thus allowing the applicant to make his educational plans.

An individual's eligibility for consideration will depend upon many factors, among which are: (1) subject matter requirements for the school or program to which he is applying; (2) high school class standing; (3) College Entrance Examination Board test results; (4) high school comments and recommendations; (5) previous college work, if any; and (6) other personal information.

1. Subject Matter Requirements—The table below shows the minimal requirements for each school within the University.

Although meeting the minimum subject matter requirements may qualify a student for consideration for admission, it may not qualify him to meet the competition of his classmates. Individuals with one required subject deficiency in their high school background may be eligible for consideration if they rank in the top one-third of their high school graduating class and are otherwise well qualified.

High school students who desire to study engineering, mathematics, chemistry, or physics should establish credit in the following high school subjects in addition to the minimum requirements in order to graduate in eight semesters: a fourth semester of algebra and a full year of both physics and chemistry.

2. High School Class Standing (Indiana residents)—Preference is given to applicants in the upper half of their high school graduating class. Applicants who rank in the lower half but *above* the lowest third (33rd percentile to 50th percentile) may be given consideration for admission if additional factors indicate that they have a reasonable chance for success at Purdue.

| Curricula | High School Graduation | 1 Unit Algebra | ½ Unit Advanced Algebra | 1 Unit Plane Geometry | ½ Unit Trigonometry | 1 Unit Laboratory Science | 3 Units English | 1 Unit Social Studies | Total of Not Less Than 15 Units |
|---|--|----------------|-------------------------|-----------------------|---------------------|---------------------------|-----------------|-----------------------|---------------------------------|
| Agriculture and Forestry | x | x | | x | | x | x | x | x |
| Engineering | x | x | x | x | x | x | x | x | x |
| Home Economics | x | x | | x | | x | x | x | x |
| Physical Education (Men) | x | | | | | x | x | x | x |
| Science | x | x | x | x | x | x | x | x | x |
| Humanities, Social Science, and Education | x | x | | x | | x | x | x | x |
| Industrial Management | x | x | x | x | x | x | x | x | x |
| Industrial Education | x | x | | x | | x | x | x | x |
| Technology, two years | x | x | | x | | x | x | x | x |
| Technology, B.S. | Two-year associate degree | | | | | | | | |
| Pharmacy | One year of prepharmacy in School of Science | | | | | | | | |
| Veterinary Science and Medicine | Two years of preveterinary curriculum | | | | | | | | |

3. College Entrance Examination Board (CEEB) tests—All applicants who have not recently completed a full year of college study are required to submit their results on the Scholastic Aptitude Test (SAT) and achievement tests in English, mathematics, and chemistry (students who have not had chemistry may substitute physics or biology). High school students should take the SAT in December and the achievement tests in March or May of their senior year. Complete information concerning

CEEB testing is available at most high schools, or persons may write directly to: College Entrance Examination Board, Box 592, Princeton, New Jersey 08540. High school graduates who do not file their application in time to arrange for the required tests should contact the Office of Admissions immediately.

On the basis of the factors considered, action on the individual's application may be one of the following:

1. Granted unqualified regular admission—this means that the applicant has met all entrance standards and requirements for admission.
2. Admitted unclassified (on probation)—this applies to the applicant whose academic background and preparation does not meet the entrance standards and/or requirements, but who the University feels has a reasonable chance of gaining regular admission at a later date.
3. Admission denied or postponed until an adequate academic background and preparation can be demonstrated.

Any admission to the University is provisional pending the receipt of all required student information. The University reserves the right to cancel any admission if a student fails to provide all necessary credentials.

NONRESIDENT ADMISSION

Out-of-state applicants must complete the same general requirements as Indiana residents. In addition, nonresident applicants should rank in the highest quarter of their high school graduating class or in the highest quarter of the College Entrance Examination Board SAT test in order to be eligible for consideration. Students who are not in the highest quarter but that are in the upper half of their class (50th percentile to 75th percentile) may be given consideration. Nonresident transfer students must have a "B" average in all previous college work (see "Transfer Students" below).

TRANSFER STUDENTS

An applicant transferring from another college or university must fulfill the following requirements in order to be considered for admission:

1. Submit an application for admission on the prescribed form through the high school from which he was graduated, including the College Entrance Examination Board test results.
2. Forward an official transcript of work done in institutions previously attended to the Office of Admissions at the North Central Regional Campus.
3. Indiana Residents only—Have a "C" average in all work done in institutions previously attended. Persons who do not have a "C" average but show academic potential may be given consideration.
4. Nonresidents only—Have a "B" average in all previous college work.

Credit earned at other institutions with the grade of "C" and above will be evaluated in terms of how it fulfills the graduation requirements at Purdue University. Evaluation of credit is completed after a student is admitted to the University.

NONDEGREE STUDENTS

Persons who desire to take advantage of the instruction in any of the departments of the University without undertaking one of the regular plans of study and without becoming a candidate for a degree may be admitted as nondegree students. Such students must present evidence that they are prepared to undertake the work desired and must progress satisfactorily in their work.

Admission as a nondegree student is for one semester only and any further enrollment must be approved by the Office of Admission. A maximum of 11 credit hours may be taken in any one semester and a maximum of 24 credit hours may be taken while classified as a nondegree student.

A personal interview is required with a member of the Office of Admissions staff prior to admission as a nondegree student. Any student who is registered in another college or university and wishes to attend Purdue during the same semester must submit a letter from the other institution approving the specific courses to be taken at the North Central Regional Campus. All students who have been previously enrolled in another institution must have a letter of good scholastic and social standing on file with the Office of Admissions prior to enrollment. Application for admission as a nondegree student should be made to the Office of Admissions at the North Central Regional Campus.

REENTRY STUDENTS

Any person in good standing who has formerly attended Purdue but has not been in attendance for a semester or more must submit an application for reentry. Each individual situation will determine the status of the person's eligibility for reentry.

READMISSION OF STUDENTS

Any person who has been formally dropped from the University for academic reasons and wishes to reenter must make application for readmission to the Faculty Committee on Scholastic Delinquencies and Admissions. Forms for initiating this procedure are available in the Dean of Men's Office on the Lafayette Campus.

ADVANCED CREDIT

The University wishes to give recognition in the form of advanced standing and credit to students who have successfully completed college level work in their high schools. There are two basic ways in which credit may be established:

1. College Board Advanced Placement Tests—Students with advanced training in a particular subject area should take the appropriate examination and have the results forwarded to Purdue.
2. Purdue Advanced Credit Examinations—A number of students may be invited to take special examinations in various subject matter areas as determined by evidence of competency in CEEB testing and high school work.

Advanced standing and credit should not be confused with placement. Placement involves having students start at the correct level of a course within the freshman sequence. High school record and College Board SAT and Achievement test results are employed in making these placements. Placement involves no advance credit.

AUDITING CLASSES

Courses may be audited. No grades or credits are received. Attendance in class is permissible when the regular class fees are paid and the individual has declared himself as a visitor or listener.

RESERVE OFFICER TRAINING

Male students planning to transfer to the Lafayette campus are now eligible for a new two year Advanced ROTC Program leading to a commission in the Air Force, Army or Navy. The program is available to anyone having four full academic semesters remaining on the Lafayette campus, including graduate school.

Students applying for this program and accepted by the service concerned attend a six week summer training camp during the summer immediately preceding their planned entry into ROTC classes, which may be either in the Fall or Spring Semester. This six week training substitutes for the first two years of basic ROTC, and for Air Force Cadets the summer camp is normally attended between the junior and senior years. Students are paid approximately \$120 during this six weeks plus transportation, housing and all meals.

Two year students receive the same benefits as four year ROTC cadets or Midshipmen. These include draft deferment, \$40 per month allowance, free uniforms and free military textbooks. Flight training is available in the last year for those who are interested and qualify. This consists of about 36½ hours of flight instruction and 35 hours of ground school at no cost to the student. Upon completion the student may be granted a private pilot's license.

There is no obligation incurred for applying for this program, taking the examinations (and in the case of the Air Force and Navy attending the six week summer training). Applications are accepted at any time up to about March 1 preceding the six week summer training.

For further information and additional details you may call or write:

Professor of Aerospace Studies
U. S. Air Force ROTC
Purdue University
Lafayette, Indiana 47907
Telephone: 92-2614

Professor of Military Science
U. S. Army ROTC
Purdue University
Lafayette, Indiana 47907
Telephone: 92-2808

Professor of Naval Science
U. S. Naval ROTC
Purdue University
Lafayette, Indiana 47907
Telephone: 92-2805

Registration

ADVANCED REGISTRATION

CURRENT STUDENTS should preregister for fall, spring, and summer sessions at announced times. New students should preregister at the times specified by the registration officer. Advanced registration eliminates standing in line and assures preferential scheduling.

DELAYED REGISTRATION

For students who are unable to preregister, a three-day registration period is held just prior to the beginning of classes. Consult the current semester schedule for dates and times.

LATE REGISTRATION

Late registration lasts one week from the first day of classes. Late registration fees are explained on page 12.

DROPPING AND ADDING COURSES

A student may add a course to his schedule only during the first week of classes (first three days of summer school). In order to effect a withdrawal from any class, a student must notify the Registration Office at the time of withdrawal. Discontinuance of class attendance is not the basis for withdrawal, and students who do not notify the office when they plan to withdraw will be given a failing grade in each course involved. To drop a course, consult the fee refund schedule on page 13 and the directed grades explanation on page 14.

TRANSFER OF ENROLLMENT TO THE LAFAYETTE CAMPUS

Upon the completion of any semester or summer session a student may transfer his enrollment from the North Central Regional Campus to the Lafayette campus. To initiate this process the student must report to the registration officer and complete the necessary forms. Following this procedure he will receive an "Authorization for Enrollment" form from the Lafayette campus along with instructions for registration. Transfer students must return the student health form to the Health Center before registering at the Lafayette campus. Only students attending on regular status may transfer to the Lafayette campus. It is not recommended that a student transfer at mid-year.

Student Services

GENERAL COUNSELING

COUNSELING PERSONNEL are available for consultation about any matters of personal or general concern. Assistance is available in such matters as financial aid, job placement, campus activities, housing, and part-time employment.

Faculty advisers are assigned to assist each student to work out a program of study that will include all required courses and a wise choice of electives.

FINANCIAL AID

Scholarships

No student may be considered for financial assistance until he has been admitted to the University. High School students who plan to attend Purdue should apply for admission early in the senior year and arrange to take the appropriate College Entrance Examination Board Tests in December of that year in order to insure early consideration of their requests for financial aid.

Students should make clear when filling in the application for financial aid that they plan to attend the North Central Regional Campus. Most scholarship applicants will be notified of the action on their applications before their graduation from high school.

National Defense Loans

Entering freshmen follow the same procedure outlined for acquiring scholarships except that requests for loan applications should be directed to the Director of Student Loans, Agricultural Hall Annex, on the Lafayette Campus.

Aid for Current Students

Financial aid in the form of scholarships and loans is available for students already enrolled at the North Central Regional Campus.

INSURANCE

Low cost University accident and health insurance similar to the policy offered at the Lafayette Campus is offered annually to all students carrying an academic load of eight hours or more. Students may take advantage of the opportunity at the beginning of each semester.

STUDENT ACTIVITIES

Purdue encourages its students to participate in student activities in the belief that membership in an organization not only provides a broader educational base for the individual, but also adds wider experience to his personal assets. Many students find an opportunity to convert classroom theory into practical use in this manner. A number of clubs and organizations are active at the North Central Regional Campus. The clubs are generally self-directed and draw on the faculty for sponsorship and advice. Any registered student is eligible to participate in the activity program.

University Fees

FEES ARE SUBJECT to change by the Board of Trustees without notice. All fees are payable at the time of registration each semester.

Course Fees. For courses numbered 100-499, \$15 per credit hour (non-residents—\$23 per credit hour) plus \$4 per laboratory hour. For courses numbered 500 and above, \$18 per credit hour (nonresidents—\$26 per credit hour) plus \$4 per laboratory hour. This fee schedule may not necessarily apply to special programs.

Costs for two semesters for full-time undergraduate students:

| | Indiana | |
|--------------------------|-----------|--------------|
| | Residents | Nonresidents |
| University fees* | \$550 | \$700 |
| Books and supplies | 100 | 100 |
| Total..... | \$650 | \$800 |

This total does not include the cost of transportation, housing, and meals which will depend upon an individual's own desires.

Late Registration Fees.

- \$2 per course during the first week of classes with a maximum of \$10.
- \$3 per course during the second week of classes with a maximum of \$15.
- A minimum of \$5 always to apply.

* Varies slightly depending upon the courses selected.

Breakage Fees. Course fees include the cost of normal breakage and wear and tear on equipment. An additional charge will be levied against individuals for excessive waste, loss, or breakage that may occur. Such special charges must be paid before course credit will be given.

Diploma Fees. Students in applied technology must pay a \$5 diploma fee not less than 30 days before the close of the semester in which they expect to complete their work for an associate degree.

Refunds. Course fees will be refunded under any one of the following conditions:

1. Withdrawal during first and second weeks of semester, 80 percent refund.
2. Withdrawal during third and fourth weeks of semester, 60 percent refund.
3. Withdrawal during fifth and sixth weeks of semester, 40 percent refund.
4. Withdrawal after sixth week of semester, no refund.

Deposits on equipment are subject to regular service and breakage charges.

Refunds are not transferable from one registration period to another or from one student to another.

To be eligible for a refund, the student must notify in person the registrar and complete the necessary withdrawal procedures.

Special Examination Fees. To establish credit by examination, a nondegree student or a student currently enrolled carrying less than 12 credit hours must pay a fee of \$25 per course.

Withdrawal. In order to effect a withdrawal from any class, a student must notify his assigned faculty advisor and registrar at the time of withdrawal. Discontinuance of class attendance is not the basis for withdrawal, and students who do not notify the office when they plan to withdraw will be given a failing grade in each course involved.

Grading

ASSIGNING OF GRADES

INSTRUCTORS WILL ASSIGN each student a grade for each course in which he is enrolled at the close of a session. The student shall be responsible for the completion of all required work by the time of the last scheduled meeting in the course unless his assignment to the course has been properly cancelled. The grade shall indicate the student's achievement with respect to the objectives of the course.

For credit courses:

A—highest passing grade.

B

C

D—lowest passing grade; passing minimal objectives of the course.

E—conditional failure; failure to achieve minimal objectives, but only to such limited extent that credit can be obtained by examination or otherwise without repeating the entire course. This grade represents failure in the course unless and until the record is duly changed within one semester. It cannot be changed to a grade higher than a "D."

F—failure to achieve minimal objectives of this course. The student must repeat the course satisfactorily in order to establish credit in it.

For zero credit courses (including thesis research but not including laboratory portions of courses in which, for purposes of scheduling, separate course designation and separate class cards are used for the laboratory sections):

S—satisfactory; meets course objectives.

U—unsatisfactory; does not meet course objectives.

For complete work, either credit or noncredit:

O—incomplete; no grade; a temporary record of work which was interrupted by unavoidable absence or other causes beyond a student's control, and which work was passing at the time it was interrupted. An instructor may require the student to secure the recommendation of the student affairs and guidance officer that the circumstances warrant a grade of incomplete. On the record a grade of "O" will be equivalent to a "W" unless and until the record is duly changed within one semester or the next semester the course is offered.

Directed grades. The registrar is directed to record the following grades and symbols under special circumstances:

W—withdrew; a record of the fact that a student was enrolled in a course and withdrew or cancelled the course after the last date for late registration and adding courses.

WF—withdrew failing; a record of course cancellation after the last date for cancelling a course without grade, at which time, according to a statement from the instructor, the student was not passing in his work. This grade counts in all respects as a failing grade.

A grade of "WF" may be directed by the dean of men, the dean of women, or the Committee on Scholastic Delinquency and Readmission when a student is dropped from a course for serious scholastic delinquency.

GOOD STANDING

For purposes of reports and communications to other institutions and agencies and in the absence of any further qualification of the term, a student shall be considered in good standing unless he has been dismissed, suspended, or dropped from the University and has not been readmitted.

SCHOLARSHIP INDEXES

The scholarship standing of all regular students enrolled in programs leading to an undergraduate degree shall be determined by two scholarship indexes, the Semester Index and the Graduation Index.

1. The Semester Index is an average determined by weighting each grade received during a given semester by the number of semester hours of credit in the course.
2. The Graduation Index is a weighted average of all grades received by a student while in the curriculum in which he is enrolled plus all other grades received in courses taken in other curricula offered by the University and properly accepted for satisfying the requirements of the curriculum of the school in which the student is enrolled. With the consent of his adviser, a student may repeat a course. In the case of courses which have been repeated or in which conditional grades have been removed by examination or for which a substantially equivalent course has been substituted, the most recent grade received shall be used.

3. For the purpose of averaging, each grade shall be weighted in the following manner:
- A—6 x semester hours = index points
 - B—5 x semester hours = index points
 - C—4 x semester hours = index points
 - D—3 x semester hours = index points
 - E, F, WF—2 x semester hours = index points
 - O, W not included

GRADUATION INDEX REQUIREMENT

A minimum Graduation Index of 4.00 is required for graduation.

SCHOLASTIC PROBATION

A candidate for the bachelor's or associate degree shall be placed on probation if his semester or graduation index at the end of any semester is less than that required for a student with his classification as shown in Table A. A student on probation shall be removed from that status at the end of the first subsequent semester in which he achieves semester and graduation indexes equal to or greater than those required for a student with his classification as shown in Table A. Any grade change due to a reporting error will require reconsideration of probation status.

Temporary students who do not achieve academic standing required of regular students may be discontinued. Probation is concerned only with the regular semesters and not with the summer sessions and intensive courses.

TABLE A. INDEX LEVELS FOR PROBATION

S = Semester Index; G = Graduation Index

| Classification | S | G |
|----------------|-----|------|
| 1 | 3.5 | 3.5 |
| 2 | 3.5 | 3.5 |
| 3 | 3.6 | 3.75 |
| 4 | 3.6 | 3.90 |
| 5 | 3.7 | 3.95 |
| 6 | 3.7 | 4.0 |
| 7 | 3.7 | 4.0 |
| 8 and up | 3.7 | 4.0 |

DROPPING OF STUDENTS FOR SCHOLASTIC DEFICIENCY

A student on scholastic probation shall be dropped from the University if at the close of any semester the semester or graduation index is less than that required of a student with his classification as shown in Table B. This rule shall not apply for the semester in which the student completes all requirements for his degree. A student dropped by this rule and later duly readmitted as a regular student shall be readmitted on probation.

TABLE B. INDEX LEVELS FOR DROPPING

S = Semester Index; G= Graduation Index

| Classification | S | G |
|----------------|-----|------|
| 1* | 3.2 | 3.2 |
| 2 | 3.3 | 3.3 |
| 3 | 3.4 | 3.5 |
| 4 | 3.4 | 3.6 |
| 5 | 3.5 | 3.7 |
| 6 | 3.5 | 3.8 |
| 7 | 3.5 | 3.85 |
| 8 and up | 3.5 | 3.9 |

DISTINGUISHED STUDENTS

Regular undergraduate students, carrying at least 14 semester hours, who successfully complete all their courses with a grade "C" or higher and obtain a semester scholarship index of 5.50 or better will be designated as distinguished for that semester.

DEGREES WITH DISTINCTION

Degrees are awarded at the end of each semester and summer session to candidates who have completed the requirements of their schools. At each of these periods degrees with distinction are awarded to those completing the undergraduate plans of study under the following rules:

1. Distinction at graduation shall be awarded on the basis of all course work taken. Baccalaureates with distinction shall be granted only to those who complete the four (or five) year curricula at Purdue and not to those who complete only the first three years at Purdue.

2. A candidate for the baccalaureate with distinction must have earned at least 70 hours of credit at Purdue. A candidate for an associate degree with distinction must have earned at least 45 hours of credit at Purdue.

For any student to qualify for distinction, his scholarship index for all work completed must be at least 5.00.

3. If the number of graduates in any school who qualify for distinction under rules (1) and (2) exceed one-tenth of the total number of graduates from that school and for that semester or summer session, the number of degrees with distinction shall be limited to one-tenth of the class in that school, and those graduates with highest indexes shall be included. In administering this rule all baccalaureate engineering graduates will be considered as one school and all associate degree graduates will be considered as one school.

4. Of those students who qualify for distinction under these rules, the three-tenths of the baccalaureate graduates having the highest indexes shall be designated as graduating with highest distinction, irrespective of the schools to which they may belong. The three-tenths of the associate degree graduates having the highest indexes will be designated as graduating with highest distinction.

5. No student with a record of faculty discipline shall be included without special approval by the faculty.

* Affects only students entering on probation.

Plans of Study

ABBREVIATIONS

| | | |
|---------------------------------------|---------------------------------------|---|
| A&D—Art and Design | EG—Engineering Graphics | MSA—Materials Science and Metallurgical Engineering |
| AGR—Agriculture | ENGL—English | MET—Mechanical Engineering Technology |
| AGRY—Agronomy | ENGR—Engineering Sciences | MTT—Metallurgical Engineering Technology |
| ANSC—Animal Sciences | ESC—Engineering Sciences | NT—Nursing Technology |
| ART—Architectural Technology | F&N—Foods and Nutrition | PEMN—Physical Education for Men |
| BIOL—Biological Sciences | FOR—Forestry and Conservation | PEW—Physical Education for Women |
| CE—Civil Engineering | FR—French | PHAR—Pharmacy |
| CES—Civil Engineering Service Courses | GER—German | PHCH—Pharmaceutical Chemistry |
| CET—Civil Engineering Technology | GNT—General Studies, Technology | PHIL—Philosophy |
| CHE—Chemical Engineering | GS—General Studies, Humanities | PHYS—Physics |
| CHM—Chemistry | HIST—History | POL—Political Science |
| CHT—Chemical Engineering Technology | IED—Industrial Education | PST—Physical Sciences Technology |
| CS—Computer Sciences | IET—Industrial Engineering Technology | PSY—Psychology |
| C&T—Clothing and Textiles | INDM—Industrial Management | RUSS—Russian |
| CPT—Computer Technology | IS—Industrial Supervision | SOC—Sociology |
| ECON—Economics | MA—Mathematics | SPAN—Spanish |
| ED—Education | ME—Mechanical Engineering | SPE—Speech |
| EE—Electrical Engineering | | STAT—Statistics |
| EET—Electrical Engineering Technology | | |

School of Agriculture

Training in the professional phases of agriculture provides an opportunity to qualify for challenging and exciting careers. The pressure of population upon world supplies of food and fiber is evident. Modern food production, processing, and marketing are expanding rapidly. The stimulation and control of growth by biological and chemical means present complex problems. The use of natural resources for maximum benefit to society is a compelling necessity.

The opportunities for agricultural graduates trained in professional areas are expanding rapidly. In the decades ahead the demand for men and women with scientific training in agriculture will expand more rapidly than the increase in graduates. Industries related to agriculture need men and women who understand agriculture and are trained in business, communications, production, economics, education, and science.

Training in the School of Agriculture is based upon a solid foundation of mathematics, chemistry, biology, physics, economics, and English. Students are asked to choose an option within agriculture at sophomore level in order

to develop a sequence of courses leading to a more clearly defined objective. Each option has substantial opportunities for electives which permit additional specialization in main areas of interest or permit a broad choice in liberal arts or general education.

REQUIRED FRESHMAN YEAR*

| First Semester | Second Semester |
|---|--|
| (4) BIOL 109 (Introduction to Zoology) | (4) BIOL 108 (Introduction to Botany) |
| (3) CHM 111 (General Chemistry) | (3) CHM 112 (General Chemistry) |
| (3) ENGL 101 (English Composition I) | (3) SPE 114 (Fundamentals of Speech Communication) |
| (3) MA 153 (Algebra and Trigonometry I) | (3) MA 154 (Algebra and Trigonometry II) |
| (3) ANSC 101 (Animal Agriculture) | (3) AGRY 105 (Crop Production) |
| | (0) AGR 101 (Agricultural Lectures) |
| <hr/> | <hr/> |
| (16) | (16) |

AGRICULTURAL ENGINEERING

See Freshman Engineering Programs.

PREVETERINARY CURRICULUM

An organized four-semester preveterinary curriculum, closely approximating the requirements listed in the catalog of the School of Agriculture, is available at the North Central Regional Campus. This program is designed to qualify the student for admission to the School of Veterinary Science and Medicine. However, if the student is not admitted or does not wish to enter the School of Veterinary Science and Medicine, the curriculum provides a strong program in the biological and physical sciences, which may be used as a basis for continued training in the School of Agriculture should the Bachelor of Science in Agriculture degree be desired.

FRESHMAN YEAR

| First Semester | Second Semester |
|---|--|
| (3) ENGL 101 (English Composition I) | (3) ENGL 102 (English Composition II) |
| (4) CHM 111 (General Chemistry) | (4) CHM 112 (General Chemistry) |
| (3) MA 153 (Algebra and Trigonometry I) | (4) BIOL 108 (Introduction to Botany) |
| (4) BIOL 109 (Introduction to Zoology) | (3) SPE 114 (Fundamentals of Speech Communication) |
| (3) ANSC 101 (Animal Agriculture) | (3) MA 154 (Algebra and Trigonometry II) |
| <hr/> | <hr/> |
| (17) | (17) |

Schools of Engineering

UNDERGRADUATE INSTRUCTION in engineering, agricultural engineering, chemical engineering, civil engineering, electrical engineering, engineering sciences, industrial engineering, materials science and metallurgical engineering, and mechanical engineering leads to the degree of Bachelor of Science. In order to give the student sufficient time to adjust himself and to choose the branch of

* There are slight variations in academic program for students following programs in agricultural science, biochemistry, food technology, and forestry and conservation.

engineering for which he is best adapted, the following program of study during the freshman year is common for all engineering curricula. Only those students with adequate background training will be expected to accomplish this in two semesters. Students with inadequate preparation, particularly in mathematics and chemistry, may require an additional semester or summer session to attain sophomore standing.

GENERAL EDUCATION PROGRAM

All engineering students are required to take a minimum of 24 credit hours of general education courses. These hours are distributed as indicated below.

- 1. Six credit hours in communications are required in the freshman engineering program. These are ENGL 101 or 103 and SPE 114.
- 2. The remaining 18 credit hours must be selected from two groups of courses sequences, the first group being in the social sciences and the second group being in fine arts and humanities.
- 3. Each student must select one 12-hour sequence and one 6-hour sequence. No student may elect a 6-hour sequence from the same group from which he chose a 12-hour sequence.

GROUP I

- 12-hour sequences*
- Sociology and/or Psychology
- Economics
- Foreign Language and Culture
- Political Science

- 6-hour sequences*
- List same as above.

GROUP II

- 12-hour sequences*
- Creative Arts
- General Studies
- Literature
- Speech and/or Theatre
- Independent Reading
- History
- Philosophy

- 6-hour sequences*
- Same as above except General Studies

The above sequences are set up to give depth to the various programs in the social sciences, fine arts, and humanities. A pamphlet stating the objectives of the program in general education is available from the academic counselors.

FRESHMAN ENGINEERING

Program A: Students fully qualified upon entrance.

First Semester

- (4) CHM 115 (General Chemistry)
- (5) MA 161 (Mathematics for Engineering and the Physical Sciences I)
- (3) SPE 114 (Fundamentals of Speech Communication) or ENGL 101 (English Composition I)
- (1) ENGR 100 (Freshman Engineering Lectures)
- (3) EG 118 (Engineering Graphics)
- (3) General Elective

(19)

Second Semester

- (4) CHM 116 (General Chemistry)
- (5) MA 162 (Mathematics for Engineering and the Physical Sciences II)
- (3) ENGL 101 (English Composition I) or SPE 114 (Fundamentals of Speech Communication)
- (4) PHYS 152 (Mechanics and Sound)
- (3) General Elective

(19)

Program B: Students with below average preparation in mathematics.

| First Semester | Second Semester |
|---|---|
| (4) CHM 115 (General Chemistry) | (4) CHM 116 (General Chemistry) |
| (5) MA 151 (Elementary Mathematics for Engineering and the Physical Sciences) | (5) MA 161 (Mathematics for Engineering and the Physical Sciences I) |
| (3) ENGL 101 (English Composition I) or SPE 114 (Fundamentals of Speech Communication) | (3) SPE 114 (Fundamentals of Speech Communication) or ENGL 101 (English Composition I) |
| (1) ENGR 100 (Freshman Engineering Lectures) | (6) General Electives |
| (3) EG 118 (Engineering Graphics) | |
| <hr/> (16) | <hr/> (18) |

Program C: Students with below average preparation in chemistry.

| First Semester | Second Semester |
|---|---|
| (3) CHM 111 (General Chemistry) | (3) CHM 112 (General Chemistry) |
| (5) MA 161 (Mathematics for Engineering and the Physical Sciences I) | (5) MA 162 (Mathematics for Engineering and the Physical Sciences II) |
| (3) SPE 114 (Fundamentals of Speech Communication) or ENGL 101 (English Composition I) | (3) ENGL 101 (English Composition I) or SPE 114 (Fundamentals of Speech Communication) |
| (1) ENGR 100 (Freshman Engineering Lectures) | (4) PHYS 152 (Mechanics and Sound) |
| (3) EG 118 (Engineering Graphics) | (3) General Elective |
| <hr/> (15) | <hr/> (18) |

Program D: Students with below average preparation in chemistry and mathematics.

| First Semester | Second Semester |
|---|---|
| (3) CHM 111 (General Chemistry) | (3) CHM 112 (General Chemistry) |
| (5) MA 151 (Elementary Mathematics for Engineering and the Physical Sciences) | (5) MA 161 (Mathematics for Engineering and the Physical Sciences I) |
| (3) ENGL 101 (English Composition I) or SPE 114 (Fundamentals of Speech Communication) | (3) SPE 114 (Fundamentals of Speech Communication) or ENGL 101 (English Composition I) |
| (1) ENGR 100 (Freshman Engineering Lectures) | (6) General Electives |
| (3) EG 118 (Engineering Graphics) | |
| <hr/> (15) | <hr/> (17) |

School of Home Economics

THE PLAN OF STUDY in home economics is designed to prepare young men and women for professional work in the various areas of the field and at the same time to provide a broad general education which prepares the student to meet the needs for home and community living.

Areas of concentration include clothing and textiles, foods and nutrition, food management, foods in business, food research, home economics extension, housing, and vocational home economics teaching.

Students interested in preparation for work in the fields mentioned above should enroll in the curriculum listed below.

FRESHMAN YEAR

| First Semester | Second Semester |
|--|--|
| (3) ENGL 101 (English Composition I) or ENGL 103 (Composition and Literature) | (3) ENGL 102 (English Composition II) |
| (3) CHM 111 (General Chemistry) | (3) CHM 112 (General Chemistry) |
| (3) SOC 100 (Introductory Sociology) | (3) ENGL 240 (English Literature) |
| (3) SPE 114 (Fundamentals of Speech Communication) | (3) PSY 120 (Elementary Psychology) |
| (3) Mathematics | (3) ECON 210 (Principles of Economics) |
| | (1) ENGL 185 (Developmental Reading) |
| (15) | (16) |

School of Humanities Social Science, and Education

THREE BACHELOR'S DEGREES are offered in the School of Humanities, Social Science, and Education: Bachelor of Arts, Bachelor of Science, and Bachelor of Physical Education. All programs leading to these degrees have certain requirements in common:

1. Satisfaction of the minimum scholastic index requirements as established by the faculty;
2. The general University requirements for residence, payment of diploma fee, attendance at commencement exercises, etc. For further details about these requirements, see the *General Information Bulletin*.

BACHELOR OF ARTS AND BACHELOR OF SCIENCE

The program leading to the degree Bachelor of Science is followed by students majoring in audiology and speech sciences or psychology. The program leading to the degree Bachelor of Arts is followed by students majoring in any of the fields of humanities or social sciences, in high school teaching in any of these fields, or by women students preparing to teach physical education.

In addition to the University-wide requirements for the bachelor's degree, the requirements for the Bachelor of Arts and Bachelor of Science degrees are (1) completion of the required courses listed under General Education Requirements, which are designed to insure the broad liberal education of the

student; (2) selection of an area, a concentration, or a major, and the completion of the requirements on file in the office of the dean; and (3) completion of at least 126 semester hours of credit within ten years preceding the date of graduation.

GENERAL EDUCATION REQUIREMENTS

About one half of the total program is devoted to the satisfaction of "core requirements," which have been chosen with a view to broadening the student's background. These requirements for the B.A. and B.S. degrees are:

| | |
|--|----------|
| English Composition (Engl 101, 102 or 103 or equivalent) . . . | 6 hours |
| Speech (SPE 114) | 3 hours |
| Foreign Language (Courses numbered 101, 102, 203, 204; or proficiency in 204 or higher in one modern foreign language) | 12 hours |
| Literature (any six hours for which a student is qualified, in English, or in a foreign language) | 6 hours |
| Mathematics (MA 123, 124; or 133, 134; or 153, 154) | 6 hours |
| Natural or Physical Science (a six-hour laboratory sequence in biology, chemistry, or physics) | 6 hours |
| Social and Behavioral Sciences | |
| (a) history (HIST 200 or 251) | 3 hours |
| (b) sociology or psychology (SOC 100 or PSY 120) | 3 hours |
| (c) political science or economics (POL 101 or ECON 210) | 3 hours |
| (d) Two additional courses of three hours each from any two of the above five subjects | 6 hours |
| Philosophy (PHIL 210, 211, or 250) | 3 hours |
| Art, Music, Theatre (one of A&D 355, 356, 357, MUS 370, 372, 373, 375, SPE 240, THTR 250, 353, 356) | 3 hours |
| General Studies (GS 435 or 436) | 2 hours |
| | <hr/> |
| | 62 hours |

CONCENTRATION REQUIREMENTS

There are three patterns of concentration: (1) the *area* (maximum of 46 hours, of which at least 12 are in courses outside the major department); (2) the *concentration* (36 to 46 hours); and (3) the *major* (24 to 35 hours). Each department specifies whether its major must be accompanied by a minor. This major, concentration, or area provides the depth necessary for admission to a graduate school, to meet teacher certification requirements, or for a well-rounded liberal education.

Each student must file his choice of major, area, or concentration at the office of the dean, not later than the end of the third semester. He may subsequently change his major, with permission of the dean.

B.A. and B.S. Degrees

AREAS, CONCENTRATIONS, AND MAJORS

**AUDIOLOGY AND SPEECH
SCIENCES**

Audiology and Speech Sciences
Speech and Hearing Therapy

**CHILD DEVELOPMENT AND
FAMILY LIFE**

Human Development

CREATIVE ARTS

Advertising Design
Art History
Fine Arts
Interior Design
Music History
Theatre

ENGLISH

American Literature
Creative Writing
English Honors
English Literature
Journalism

FOREIGN LANGUAGE

French
German
Russian
Spanish

HISTORY

American Civilization
American History
European History

LIBRARY SCIENCE

PHILOSOPHY

**PHYSICAL EDUCATION, HEALTH,
AND RECREATION**

Health and Safety
Recreation

POLITICAL SCIENCE

Comparative Government
International Relations
Political Science
Political Theory

PRE-LAW

PSYCHOLOGY

SOCIOLOGY

SPEECH

Speech Communication
Speech General
Radio-Television

MINORS

Audiology and Speech Sciences
Economics
French
German
Health and Safety
History
Journalism
Library Science
Literature
Mathematics
Music History and Theory
Philosophy

Political Science
Psychology
Radio and Television
Recreation
Russian
Sociology
Spanish
Speech Communication
Speech Communication, History of
Speech, General
Theatre

PROGRAMS FOR TEACHER CERTIFICATION

Teaching Area Majors

Arts and Crafts

Physical Education and Health
(Women)

Teaching Majors

Arts and Crafts

Elementary Education

Foreign Language

Library

Nursery-Kindergarten

Physical Education (Men)

Special Education (Teaching the
Mentally Retarded)

English Honors

English

Foreign Language

French

German

Russian

Spanish

Health and Safety

Physical Education and Health
(Women)

Recreation

School Library and Audiovisual
Services

Social Studies—two of:

Economics

Government

Sociology

U. S. History

World History

Speech

Speech and Hearing Therapy

Teaching Minors

Arts and Crafts

Biology

Chemistry

English

Foreign Language

French

German

Russian

Spanish

General Science

Health and Safety

Mathematics

Physical Education (Men)

Physical Education (Women)

Physics

Psychology

Recreation

School Library and Audiovisual
Services

Social Studies—one of:

Economics

Government

Sociology

U. S. History

World History

Speech

In teacher preparation, Purdue University has been accredited by the National Commission on Accreditation of Teacher Education, by the North Central Association of Secondary Schools and Colleges, and by the Indiana State Department of Public Instruction. Detailed requirements for any of the areas, majors, or minors may be obtained from the student counseling office of the school. A student who has an educational objective not covered in the list of areas, majors, or minors should consult Assistant Dean George P. Salen.

Each student's program for the four years will be based on one of several plans of study, appropriately modified to fit his concentration requirements and his exemptions, i.e., proficiency in modern language, ENGL 103, etc.

Students who plan to teach in high school will use the plan of study for the major subject-matter field of the teaching certificate for which they expect to qualify.

BACHELOR OF ARTS—GENERAL PROGRAM

FRESHMAN YEAR

| First Semester | Second Semester |
|---|--|
| (3) ENGL 101 (English Composition I) | (3) ENGL 102 (English Composition II) |
| (3) MA 123 (Elementary Concepts of Mathematics I) | (1) ENGL 185 (Developmental Reading) |
| (3-4) Biology | (3) SPE 114 (Fundamentals of Speech Communication) |
| (3) Modern Language | (3) MA 124 (Elementary Concepts of Mathematics II) |
| (3) Social Science | (3-4) Biology |
| (2-3) Elective or Physical Education | (3) Modern Language |
| | (1-3) Elective or Physical Education |
| <hr/> (18-19) | <hr/> (18-20) |

SOPHOMORE YEAR

| First Semester | Second Semester |
|---|--|
| (3) ENGL 240 (English Literature) | (3) ENGL 241 (English Literature) |
| (3) PHIL 210 (Introduction to Philosophy) | (3) ED 285 (Educational Psychology), or elective |
| (3) PSY 120 (Elementary Psychology) | (3) Social Science |
| (3) Social Science | (3) Modern Language |
| (3) Modern Language | (3) Social Science |
| (1) Physical Education | (1) Physical Education |
| <hr/> (16) | <hr/> (16) |

ELEMENTARY EDUCATION

Preparation in elementary education is offered to a limited number of students chosen on the basis of above-average scholarship, leadership qualities, good mental and physical health, and positive attitude toward children and teaching as a profession. In addition to the core program of all students and the professional program in elementary education the student will have 24 semester hours for a major in the field of his choice.

FRESHMAN YEAR

| First Semester | Second Semester |
|---|---|
| (3) ENGL 101 (English Composition I) | (3) BIOL 206 (Biology for Elementary School Teachers) |
| (3) BIOL 205 (Biology for Elementary School Teachers) | (3) HIST 252 (The United States and Its Place in World Affairs) |
| (4) MA 133 (Mathematics for Elementary School Teachers I) | (4) MA 134 (Mathematics for Elementary School Teachers II) |
| (3) HIST 251 (American History to 1865) | (3) ENGL 102 (English Composition II) |
| (3) Modern Language | (3) Modern Language |
| <hr/> (16) | <hr/> (16) |

SOPHOMORE YEAR

| First Semester | Second Semester |
|--|---|
| (3) SPE 114 (Fundamentals of Speech Communication) | (3) PHIL 210 (Introduction to Philosophy) |
| (3) PSY 120 (Elementary Psychology) | (3) ED 285 (Educational Psychology) |
| (3) POL 101 (Introduction to Government) | (3) Modern Language or second major |
| (3) Modern Language | (3) Social Science 2* |
| (3) Literature | (3) Aesthetics† |
| <hr/> (15) | <hr/> (15) |

PHYSICAL EDUCATION (WOMEN)**FRESHMAN YEAR**

| First Semester | Second Semester |
|--|--|
| (3) ENGL 101 (English Composition I) or ENGL 103 (Composition and Literature) | (3) ENGL 102 (English Composition II) |
| (3) SPE 114 (Fundamentals of Speech Communication) | (3) PSY 120 (Elementary Psychology) |
| (3) MA 123 (Elementary Concepts of Mathematics I) | (3) MA 124 (Elementary Concepts of Mathematics II) |
| (1) PEW 103 (Personal Hygiene) | (1) ENGL 185 (Developmental Reading) |
| (3) Modern Language | (3) Modern Language |
| (3) Social Science | (3) Social Science |
| <hr/> (16) | <hr/> (16) |

* Social Science 2 should be SOC 100 or ECON 210.

† Aesthetics may be taken from MUS 370, A&D 355, 356, or 357.

BACHELOR OF SCIENCE:
PSYCHOLOGY

FRESHMAN YEAR

| First Semester | Second Semester |
|--|---------------------------------------|
| (3) ENGL 101 (English Composition I) | (3) ENGL 102 (English Composition II) |
| (3) SPE 114 (Fundamentals of Speech Communication) | (3) PSY 120 (Elementary Psychology) |
| (3) Mathematics | (3) Mathematics |
| (3) Modern Language | (3) Modern Language |
| (3) Social Science | (3) Social Science |
| <hr/> | <hr/> |
| (15) | (15) |

AUDIOLOGY AND SPEECH SCIENCES

FRESHMAN YEAR

| First Semester | Second Semester |
|--|--|
| (2) BIOL 201 (Biology of Man) | (2) BIOL 203 (Biology of Man) |
| (1) BIOL 202 (Laboratory in Human Biology) | (1) BIOL 204 (Laboratory in Human Biology) |
| (3) ENGL 101 (English Composition I) | (3) ENGL 102 (English Composition II) |
| (3) MA 153 (Algebra and Trigonometry I) | (3) MA 154 (Algebra and Trigonometry II) |
| (3) Modern Language | (3) Modern Language |
| (3) Social Science | (3) Social Science |
| <hr/> | <hr/> |
| (15) | (15) |

BACHELOR OF PHYSICAL EDUCATION

In order to qualify for the degree of Bachelor of Physical Education the student must fulfill the following requirements:

1. Complete the curriculum requirements for one of the options in physical education and
2. Complete at least 138 hours of credit.

At the end of a common freshman year, the students may choose one of four options. Option A is designed for those students who wish to become athletic coaches and teachers of health and physical education. Option C offers the student techniques of remedial or therapeutic practices in physical education and is intended to prepare the student for admission to a school of physical therapy. Option B is a special non-teacher-preparation program to be arranged with an adviser. It has the same over-all requirements as the other two options. Option D is for those who wish to become athletic trainers, and requires special counseling.

FRESHMAN YEAR

| First Semester | Second Semester |
|---|---|
| (2) BIOL 201 (Biology of Man) | (2) BIOL 203 (Biology of Man) |
| (1) BIOL 202 (Laboratory in Human Biology) | (1) BIOL 204 (Laboratory in Human Biology) |
| (3) ENGL 101 (English Composition I) | (3) ENGL 102 (English Composition II) |
| (3) SOC 100 (Introductory Sociology) | (3) SPE 114 (Fundamentals of Speech Communication) |
| (3) PSY 120 (Elementary Psychology) | (3) SOC 220 (Social Problems) |
| (3) MA 123 (Elementary Concepts of Mathematics I) or MA 153 (Algebra and Trigonometry I) | (1) ENGL 185 (Developmental Reading) |
| (15) | (3) MA 124 (Elementary Concepts of Mathematics II) or MA 153 (Algebra and Trigonometry II) |
| | (16) |

School of Industrial Management

INDUSTRIAL MANAGEMENT

AS MODERN SOCIETY makes increasing use of technology, managers must keep informed to handle their own jobs effectively and to be able to understand and cooperate with the technical specialist. The industrial management curriculum, by including a required technical sequence, enables the student to take advantage of Purdue's excellent resources in science and technology. Through the technical option, students are provided an opportunity to acquire a basic understanding of a specific area in the field of science and technology. Such an objective is essential if the individual is to be capable of working effectively with engineers and scientists in a technically-based industry.

Included in the curriculum is a concentration of mathematics and quantitative methods courses designed to provide the necessary training and background in the use of rigorous analytic techniques applicable to management decisions. This program is designed to help the student develop this kind of broad understanding of the management process.

An administrator cannot be made in the short span of a few months or a year. Indeed, most individuals require years of experience to develop the skills, insights, and maturity of judgment which distinguish an effective manager. However, a professional management curriculum can give the student an effective start in his development as a manager. In brief, it can help him become a more useful member of his organization early in his career, and it can aid him in learning and growing more rapidly in positions of increasing responsibility.

ECONOMICS

In contrast to the technically-based internal approach utilized in the management program, the economics curriculum provides a coordinated series of courses in the field of economics and business as a means of developing a broad fundamental background in business organizations and the economic

environment in which a business operates. The program includes four two-semester sequences covering economic principles, aggregate economics, statistics, and accounting, plus courses in business law and managerial economics. In addition, three related courses in economics and business, of special interest to the student, make possible a degree of specialization. Elective hours permit either further concentration in economics or enrichment in the general education area.

Business leaders, employment officials, and schools for advanced study, such as law schools, have endorsed this type of economics and business education with liberal arts background. The program satisfies the need of future junior business executives for a broad, liberal-arts-oriented base on which to build specific training and experience received on the job.

INDUSTRIAL MANAGEMENT

FRESHMAN YEAR

First Semester

- (4) CHM 115 (General Chemistry)
- (5) MA 161 (Mathematics for Engineering and the Physical Sciences I)
- (3) ENGL 101 (English Composition I)
- (3) POL 101 (Introduction to Government)
- (1) ENGL 185 (Developmental Reading)
- (3) Electives

(19)

Second Semester

- (4) CHM 116 (General Chemistry)
- (5) MA 162 (Mathematics for Engineering and the Physical Sciences II)
- (3) SPE 114 (Fundamentals of Speech Communication)
- (3) ENGL 102 (English Composition II)
- (3) Electives

(18)

ECONOMICS (OPTION)

FRESHMAN YEAR

First Semester

- (3) ENGL 101 (English Composition I)
- (3) MA 153* (Algebra and Trigonometry I)
- (3) HIST 251 (American History to 1865) or
HIST 200 (Early Civilization) or
HIST 252 (The United States and Its Place in World Affairs)
- (3) Modern Language†
- (3) Science Elective‡
- (3) Electives

(18)

Second Semester

- (3) ENGL 102 (English Composition II)
- (3) MA 154* (Algebra and Trigonometry II)
- (3) Modern Language†
- (3) Social Science Elective
- (3) Science Elective‡
- (3) Electives

(18)

* A higher level course may be taken, depending on student's mathematics background.

† French, German, Russian, Spanish, except by permission of the dean of the school.

‡ Elective areas are biology, chemistry, and physics.

SOPHOMORE YEAR

| Third Semester | Fourth Semester |
|--|--|
| (3) ECON 210 (Principles of Economics I) | (3) SPE 114 (Fundamentals of Speech Communication) |
| (3) INDM 200 (Basic Accounting) | (3) ECON 212 (Principles of Economics II) |
| (3) Literature | (3) Literature |
| (3) Philosophy | (3) Modern Language* |
| (3) Modern Language* | (3) Elective |
| (3) Elective | |
| <hr/> (18) | <hr/> (15) |

School of Science

THE SCHOOL OF SCIENCE consists of the Department of Biological Sciences, the Department of Chemistry, the Department of Physics, and the Division of Mathematical Sciences.

Curricula leading to two degrees, Bachelor of Science and Bachelor of Science in Chemistry, are offered by the School of Science. Specific details of these curricula and the requirements for the degrees are listed in the School of Science catalog.

The School of Science offers training to selected students who wish to prepare themselves to teach in the fields of biology, chemistry, mathematics, physics, or in certain combinations of these fields.

BACHELOR OF SCIENCE DEGREE

General Education Requirements

The following general requirements for the B.S. degree in the School of Science are supplemented by requirements of the department of the student's major. Particular attention is drawn to modifications allowed in the curricula for prospective high school teachers (as indicated below).

1. A total of 124 semester hours, plus physical education or military science as specified by the University.

2. English composition: ENGL 101 and 102, or ENGL 103 entered by achievement examination and completed with a grade of C or better.

3. Modern foreign language: Pass a fourth-semester college-level course in a modern foreign language, or pass an equivalent proficiency examination. In high school teacher curricula, the student must pass a second-semester college-level course in a modern foreign language or pass a proficiency examination.

4. Humanities, social science, and behavioral sciences: The minimum requirement is 18 hours, but it is strongly recommended that the student take more than a minimal program. Six hours must be chosen from each of two of the following areas: (a) literature, philosophy; (b) history, political science; and (c) economics, sociology, psychology. In addition, a satisfactory two-course sequence must be chosen from one of the above areas.

* French, German, Russian, Spanish, except by permission of the dean of the school.

5. Mathematics: At least 11 hours.

6. Science: Each student must take at least four courses in laboratory science (biology, chemistry, geology, physics) *outside his major area*. It is preferable that he take two-course sequences in each of two sciences; in no case shall he satisfy this requirement by courses drawn from more than two sciences.

BIOLOGICAL SCIENCES, PREMEDICINE, DENTISTRY, AND MEDICAL TECHNOLOGY

FRESHMAN YEAR

| First Semester | Second Semester |
|---|--|
| (4) BIOL 109 (Introduction to Zoology) | (4) BIOL 108 (Introduction to Botany) |
| (4) CHM 115 (General Chemistry) | (4) CHM 116 (General Chemistry) |
| (3) ENGL 101 (English Composition I) | (3) SPE 114 (Fundamentals of Speech Communication) |
| (3) MA 153 (Algebra and Trigonometry I) | (3) MA 154 (Algebra and Trigonometry II) |
| (3) Modern Language* | (3) Modern Language |
| (3) Elective | (3) Elective |
| <hr/> (20) | <hr/> (20) |

CHEMISTRY

FRESHMAN YEAR

| First Semester | Second Semester |
|--|---|
| (4) CHM 115 (General Chemistry) | (4) CHM 116 (General Chemistry) |
| (3) ENGL 101 (English Composition I) | (3) SPE 114 (Fundamentals of Speech Communication) |
| (3) GER 101 (First Course in German) | (3) GER 102 (Second Course in German) |
| (5) MA 161 (Mathematics for Engineering and the Physical Sciences I) | (5) MA 162 (Mathematics for Engineering and the Physical Sciences II) |
| (3) Electives | (4) PHYS 152 (Mechanics and Sound) |
| <hr/> (18) | <hr/> (19) |

MATHEMATICS

FRESHMAN YEAR

| First Semester | Second Semester |
|--|---|
| (5) MA 161 (Mathematics for Engineering and the Physical Sciences I) | (5) MA 162 (Mathematics for Engineering and the Physical Sciences II) |
| (3) ENGL 101 (English Composition I) | (3) SPE 114 (Fundamentals of Speech Communication) |
| (3) Modern Language | (3) Modern Language |
| (4) Science Elective | (4) Science Elective |
| (3) Elective | (3) Elective |
| <hr/> (18) | <hr/> (18) |

* German or Russian is recommended.

PHYSICS

FRESHMAN YEAR

| First Semester | Second Semester |
|--|---|
| (3) ENGL 101 (English Composition I) | (4) CHM 116 (General Chemistry) |
| (4) CHM 115 (General Chemistry) | (5) MA 162 (Mathematics for Engineering and the Physical Sciences II) |
| (5) MA 161 (Mathematics for Engineering and the Physical Sciences I) | (4) PHYS 152 (Mechanics and Sound) |
| (1) ENGL 185 (Developmental Reading) | (3) Modern Language |
| (3) Modern Language | |
| <hr/> | <hr/> |
| (16) | (16) |

PREPHARMACY

The Purdue School of Pharmacy and Pharmacal Sciences does not admit students directly from high school. Students wishing to prepare for the profession of pharmacy register in the School of Science for the prepharmacy program and apply for transfer to the School of Pharmacy and Pharmacal Sciences at the end of the freshman year. Application for the transfer should be filed with the dean of the Pharmacy School or with the pharmacy adviser before April 1. Students who, for any reason, do not transfer to the School of Pharmacy and Pharmacal Sciences may apply for transfer to any other school of the University or may remain in the School of Science with a change of educational objective.

FIRST YEAR

| First Semester | Second Semester |
|---|--|
| (3) MA 153 (Algebra and Trigonometry I) | (3) MA 154 (Algebra and Trigonometry II) |
| (3) CHM 111 (General Chemistry) | (3) CHM 112 (General Chemistry) |
| (3) ENGL 101 (English Composition I) | (3) SPE 114 (Fundamentals of Speech Communication) |
| (3) SOC 100 (Introductory Sociology) | (3) PSY 120 (Elementary Psychology) |
| (3) Elective | (1) ENGL 185 (Developmental Reading) |
| | (3) Elective |
| <hr/> | <hr/> |
| (15) | (16) |

School of Technology

DIVISION OF APPLIED SCIENCE

THE UNIVERSITY has a number of two-year undergraduate programs leading to the degree of Associate in Applied Science. The work offered in these programs is of University grade as are all undergraduate courses, but the offerings are much more applied in nature.

The associate degree is awarded to each student who satisfactorily completes the program of study in one of the curricula. Graduates can expect to be immediately employable in industry. They may be admitted to the new third-

and fourth-year curricula specifically designed to lead to a Bachelor of Science degree especially for engineering technicians. Or, such graduates may be admitted to the curricula leading to a degree of Bachelor of Science in Industrial Education.

The Nature of Applied Science

Scientific and technological complexity ranges over a very broad spectrum, extending all the way from extremely simple activity to highly complex and abstract activity. At one extreme are the pure scientist and the engineering scientist; at the other, the mechanic, the craftsman, and the service personnel.

The Engineer. The 33rd Annual Report of the Engineering Council for Professional Development, Sept. 30, 1965, defines engineering as "the profession in which a knowledge of the mathematical and natural sciences gained by study, experience, and practice is applied with judgment to develop ways to utilize, economically, the materials and forces of nature for the benefit of mankind."

The Engineering Technician. The National Society for Professional Engineers has approved this definition of the engineering technician provided by the Board of the Institute for the Certification of Engineering Technicians:

"An engineering technician is one who, in support of and under the direction of professional engineers or scientists, can carry out in a responsible manner either proven techniques which are common knowledge among those who are technically expert in a particular technology, or those techniques especially prescribed by professional engineers.

"Performance as an engineering technician requires the application of principles, methods, and techniques appropriate to a field of technology, combined with practical knowledge of the construction, application, properties, operation, and limitations of engineering systems, processes, structures, machinery, devices, or materials, and, as required, related manual crafts, instrumental, mathematical, or graphic skills.

"Under professional direction an engineering technician analyzes and solves technological problems, prepares formal reports on experiments, tests, and other similar projects or carries out functions such as drafting, surveying, technical sales, advising consumers, technical writing, teaching or training. An engineering technician need not have an education equivalent in type, scope, and rigor to that required of an engineer; however, he must have a more theoretical education with greater mathematical depth, and experience over a broader field than is required of skilled craftsmen who often work under supervision."

The Skilled Craftsman. The work of the engineer and the technician would be meaningless without the contribution of the skilled craftsman who carries out engineering ideas. A toolmaker, for example, fabricates a jig or die from a design conceived by the engineer and detailed by the technician. The electrician, pipefitter, welder, machinist, chemical operator, and surveyor's rodman likewise use their skills to carry out the work of the engineering team.

Need. Our present space age, with its exploding accumulation of new information and scientific discovery, has increased the need for people with specialized training in science and technology. Experts have recently estimated that our nation's engineering schools must graduate twice the present 35,000 engineers per year if we are to meet the expanding needs.

Since it now appears improbable that our nation will be able to attain the goal of 70,000 to 80,000 engineers per year another approach to the problem is necessary. The most reasonable solution appears to be one of making the present professional engineer more efficient by providing him with assistance in the form of an engineering technician. Many experts believe there should be a ratio of from three to five engineering technicians for each engineer. This would indicate that 100,000 to 150,000 engineering technicians should be trained per year.

Currently the United States has only about 16,000 graduates of engineering technology programs coming on the job market each year. This simply means there is a large, unsatisfied demand for engineering technicians. The opportunities in this field are virtually unlimited.

Developed With Industrial Cooperation

Various courses are offered to cover the basic knowledge and practices of present-day industry. Industrial leaders have been consulted to learn the kind of specific technical information required by persons who take jobs in industry. Many members of the instructional staff are drawn from local industries, but course administration, teaching material, and standards of instruction are under the direction of the departments involved.

Programs

The applied science programs consist of:

- A. *Day programs.* These programs are designed primarily for students with little or no industrial experience—directly out of high school or military service. They are two years in duration and lead to the degree of Associate in Applied Science in the curriculum studied. Students admitted to these programs are classified as regular students. See entrance requirements on page 6.
- B. *Evening programs.* These programs are planned to serve industrial employees or others who because of many reasons, cannot attend day school programs. These include:
 1. *Programs* in the selected fields of technology which lead to the degree of Associate in Applied Science. Students admitted to these programs are classified as regular evening school students. See entrance requirements on page 6.
 2. *Certificate programs* have been designed for the more mature adult either in industrial employment already or desiring technical industrial employment. They are designed to be as concentrated and immediately practical as possible for students who have limited time or funds available for formal education. Students admitted to these programs are classified as temporary students but upon completion of an approved program may continue in the two-year associate degree program providing:
 - a. The student qualifies for reclassification as a regular student.
 - b. Not more than 12 credit hours taken as a temporary student are counted toward his degree.

ARCHITECTURAL TECHNOLOGY

This curriculum is designed to prepare students for technological employment with contractors, building materials suppliers, architects, civil engineers, and related governmental agencies.

Emphasis is placed on construction materials and processes, specifications, regulations, estimating, surveying, frame and masonry construction, and architectural and structural drafting, as well as on related courses in mathematics and physical science.

Also included are courses dealing with some of the historical, economic, and human relations aspects related to the individual in our American industrial life.

Graduates are prepared to accept positions as estimators, expeditors, planning technicians, field inspectors, architectural detailers, architectural draftsmen, and sales representatives. With experience, after completing this program of study, graduates are now holding positions as field engineers, technical engineers, junior structural engineers, engineering assistants, shop superintendents, and real estate brokers. This field of specialization is well designed to help the student who is interested in going into the construction business for himself.

FRESHMAN YEAR

| First Semester | Second Semester |
|--|--|
| (2) ART 116 (Architectural Projections) | (2) ART 121 (Freehand Drawing II) |
| (2) ART 120 (Freehand Drawing I) | (3-4) ART 150 (Architectural Construction I) |
| (2) ART 172 (Systems of Construction) | (3) ART 164 (Building Materials) |
| (5) MA 151A (Elementary Mathematics for Engineering and the Physical Sciences) | (2) CET 152 (Fundamentals of Surveying) |
| (3) ENGL 101 (English Composition I) | (4) GNT 136 (Physics: Mechanics and Heat) |
| (3) SOC 100 (Introductory Sociology) | (3) GNT 220 (Technical Report Writing) |
| <hr/> | <hr/> |
| (17) | (17-18) |

SOPHOMORE YEAR

| Third Semester | Fourth Semester |
|---|---|
| (3) ART 210 (History of Architecture I) | (3-4) ART 224 (Architectural Construction III) |
| (3-4) ART 222 (Architectural Construction II) | (3) ART 228 (Materials Testing Lab) |
| (2) ART 284 (Mechanical Equipment for Buildings) | (2) ART 276 (Specifications and Contract Documents) |
| (4) GNT 176 (Physics: Electricity, Sound and Light) | (3) ART 292 (Estimating) |
| (4) MET 212 (Mechanics of Materials) | (3) IS 268 (Elements of Law) |
| (0-3) Elective | (3) SPE 114 (Fundamentals of Speech Communication) |
| <hr/> | <hr/> |
| (17-20) | (17-18) |

COMPUTER TECHNOLOGY

This two-year associate degree program is designed to produce a graduate in the occupational range between a computer programmer and a systems analyst, but closer to the former, either in commercial areas or in scientific areas depending upon which of the two options is selected. This curriculum is designed to prepare a person to perform the following functions: analyze problems, design flowcharts and computer programs, verify programs, evaluate and modify existing programs, and be familiar with common commercial and business procedures or with common scientific and engineering procedures.

Commercial Option

FRESHMAN YEAR

| First Semester | Second Semester |
|--|---|
| (3) CPT 111 (Unit Record Data Processing) | (3) CPT 120 (Assembly Language Programming) |
| (3) CPT 112 (Machine Language Programming) | (3) CPT 154 (Data Processing Applications) |
| (5) MA 151A (Elementary Mathematics for Engineering and the Physical Sciences) | (3) GNT 122 (Computer Math) |
| (3) ENGL 101 (English Composition I) | (3) GNT 220 (Technical Report Writing) |
| (3) INDM 200 (Introductory Accounting) | (3) INDM 201 (Cost Accounting) |
| <hr/> | <hr/> |
| (17) | (15) |

SOPHOMORE YEAR

| Third Semester | Fourth Semester |
|---|--|
| (3) CPT 264 (Compiler Language Programming I) | (4) CPT 272 (Systems Analysis) |
| (3) CPT 265 (Compiler Language Programming II) | (3) CPT 284 (Utility Programs) |
| (3) STAT 401 (Elementary Statistical Methods I) | (4) IET 104 (Industrial Organization and Production) |
| (3) Social Science Elective | (3) ECON 210 (Principles of Economics) |
| (3) Technical Elective | (3) Technical Elective |
| <hr/> | <hr/> |
| (15) | (17) |

TECHNICAL ELECTIVES

- (1-4) CPT 299 (Computer Project)
- (2) GNT 260 (Economics of Industry)
- (3) IS 268 (Elements of Law)
- (3) INDM 300 (Financial Control)
- (3) STAT 402 (Elementary Statistical Methods II)

Scientific Option

FRESHMAN YEAR

| First Semester | Second Semester |
|--|---|
| (3) CPT 111 (Unit Record Data Processing) | (3) CPT 120 (Assembly Language Programming) |
| (3) CPT 112 (Machine Language Programming) | (3) MA 223A (Introductory Aanalysis I) |
| (5) MA 151A (Elementary Mathematics for Engineering and the Physical Sciences) | (4) GNT 176 (Physics: Electricity, Sound and Light) |
| (4) GNT 136 (Physics: Mechanics and Heat) | (3) ENGL 101 (English Composition I) |
| | (3) Social Science Elective |
| <hr/> (15) | <hr/> (16) |

SOPHOMORE YEAR

| Third Semester | Fourth Semester |
|---|--|
| (3) CPT 264 (Compiler Language Programming I) | (4) CPT 272 (Systems Analysis) |
| (3) MA 224A (Introductory Analysis II) | (3) CPT 284 (Utility Programs) |
| (3) CPT 220 (Numerical Analysis I) | (3) CPT 221 (Numerical Analysis II) |
| (3) STAT 401 (Elementary Statistical Methods I) | (3) ECON 210 (Principles of Economics) |
| (3) GNT 220 (Technical Report Writing) | (3) Technical Elective |
| (3) Technical Elective | |
| <hr/> 18 | <hr/> (16) |

TECHNICAL ELECTIVES

- (3) BIOL 103 (Principles of Biology)
- (3) CHM 111 (General Chemistry)
- (1-4) CPT 299 (Computer Project)
- (3) EET 205 (Circuit Fundamentals)
- (3) EET 250 (Circuit Systems Analysis)
- (3) STAT 402 (Elementary Statistical Methods II)

SOCIAL SCIENCE ELECTIVES (BOTH OPTIONS)

- (3) HIST 251 (American History to 1865)
- (3) HIST 252 (The United States and Its Place in World Affairs)
- (3) IS 152 (Human Relations in Industry)
- (3) PHIL 250 (Principles of Logic)
- (3) POL 101 (Introduction to Government)
- (3) PSY 120 (Elementary Psychology)
- (3) PSY 370 (Psychology in Business and Industry)
- (3) SOC 100 (Introductory Sociology)
- (3) SPE 114 (Fundamentals of Speech Communication)

ELECTRICAL ENGINEERING TECHNOLOGY

The electrical engineering technology program is a combination of courses in electrical engineering technology, mathematics, science, and general academic subjects that lead to the degree of Associate in Applied Science. The program is designed to prepare students for employment as electronic technicians in research laboratories, electronic industries, and in any industry that uses electrical power or electronic controls.

The basic curriculum will provide the student with sufficient education to find employment in the fields of communications electronics, industrial electronics, microwaves, military electronics, computer electronics, automation, electronic servicing, television, electrical power, aviation electronics, and others. Specialization in these areas is provided by technical elective courses in the second year of the program.

The duties of the electronic technician could be: construction, testing, and troubleshooting of experimental circuits in research laboratories; installation, maintenance, troubleshooting, operation, and testing of electrical and electronic equipment in industries; sales and service of electronic equipment, etc.

Electronic technicians have the following job classifications: research or laboratory technician, electronics engineering technician, engineering development technician, product design technician, systems test technician, field service technician, production technician, maintenance technician, instrument technician, inspectors, electronic specialist, radio operator, and many others.

After experience and continued technical growth, graduates hold such positions as junior engineer, sales engineer, field engineer, customer service engineer, applications engineer, supervisor, manager, foreman, contractor, electrical estimator, broadcast engineer, etc.

Students who obtain the degree of Associate in Applied Science are eligible for consideration for admission to curricula leading to the degree of Bachelor of Science. Approximately two additional years of study are necessary to complete the requirements for this degree.

FRESHMAN YEAR

| First Semester | Second Semester |
|--|---|
| (2) EET 103 (Electronics I: Vacuum Tubes and Transistors) | (3) EET 153 (Electronics II) |
| (3) EET 101 (Electrical Circuits I) | (3) EET 151 (Electrical Circuits II) |
| (2) EET 113 (Electrical Engineering Technology Laboratory I) | (2) EET 163 (Electrical Engineering Technology Laboratory II) |
| (4) GNT 176 (Physics: Electricity, Sound, and Light) | (4) GNT 136 (Physics: Mechanics and Heat) |
| (5) MA 151A (Elementary Mathematics for Engineering and the Physical Sciences) | (3) MA 223A (Introductory Analysis I) |
| (3) ENGL 101 (English Composition I) | (3) SPE 114 (Fundamentals of Speech Communication) |
| (19) | (18) |

SOPHOMORE YEAR

| Third Semester | Fourth Semester |
|---|---|
| (3) EET 203 (Electronics III) | (3) EET 253 (Electronics IV) |
| (3) EET 211 (Electric Machinery) | (1) EET 263 (Electrical Engineering Technology Laboratory IV) |
| (2) EET 213 (Electrical Engineering Technology Laboratory II) | (2) EET Specialty Laboratory |
| (3) MA 224A (Introductory Analysis II) (or nontechnical elective) | (3) EG 110 (Drafting Fundamentals) |
| (3) Technical Elective | (3) Technical Elective |
| (3) Nontechnical elective | (6) Nontechnical Electives |
| <hr/> | <hr/> |
| (17) | (18) |

INDUSTRIAL ENGINEERING TECHNOLOGY

This major field of specialization is designed to develop technicians to support the problem-solving and decision-making functions in management and to prepare for planning and control, work method analysis, work measurements, quality assurance and controls, and systems and procedures analysis. Practical applications of production-oriented operations research techniques, data processing, and computer programming fundamentals are stressed. Because an industrial engineering technician is concerned with an organization which has human dimensions at least as important as the technical ones, this aspect is also stressed throughout the curriculum.

The industrial technician is often initially employed in the time study, quality control, stock control, or factory layout department. As he gains experience, he may advance within the department, directly assisting a professional industrial engineer, or he may become a production supervisor. This broad technical background, together with the human relations background and a proficiency in engineering methods and mathematics, enable the industrial engineering technician to take advantage of opportunities for advancement in many directions.

FRESHMAN YEAR

| First Semester | Second Semester |
|--|--|
| (3) EG 110 (Drafting Fundamentals) | (3) ENGL 101 (English Composition) |
| (4) IET 104 (Industrial Organization and Production) | (3) IET 204 (Techniques of Maintaining Quality) |
| (5) MA 151A (Elementary Mathematics for Engineering and the Physical Sciences) | (3) CPT 100 (Computer Utilization) |
| (1) MET 100 (Applied Engineering Computations) | (3) STAT 401 (Elementary Statistical Methods) |
| (4) GNT 136 (Physics: Mechanics and Heat) | (2) MET 335 (Basic Machinery) |
| <hr/> | (4) GNT 176 (Physics: Electricity, Sound, and Light) |
| 17 | 18 |

SOPHOMORE YEAR

| Third Semester | Fourth Semester |
|---|--|
| (3) ECON 210 (Principles of Economics) | (3) GNT 220 (Technical Report Writing) |
| (3) IET 224 (Production Planning and Control) | (3) IET 250 (Fundamentals of Production Cost Analysis) |
| (3) IET 262 (Motion Study and Work Methods) | (3) IET 266 (Work Measurement and Incentives) |
| (3) IS 152 (Human Relations in Industry) | (3) SPE 114 (Fundamentals of Speech Communication) |
| or | (2-3) Technical Elective |
| PSY 370 (Psychology in Business and Industry) | (2-3) Technical Elective |
| (2) IET 220 (Critical Path Analysis) | |
| (3) Technical Elective | |
| <hr/> 17 | <hr/> 16-18 |

MECHANICAL ENGINEERING TECHNOLOGY

This program of study is designed to prepare students to take employment in industries requiring services of drafting and design of a mechanical nature.

Emphasis is placed on product and tool design, mechanical maintenance, testing, inspection, and the selection of methods for efficient and economical production.

Also included are courses dealing with fundamentals of industrial management and with some of the historical, economic, and human relations aspects of our American industrial life, all related to the individual.

Graduates of this program accept jobs as laboratory technicians, engineering assistants, detailers, draftsmen, tool maintenance men, plant maintenance men, layout men, inspectors, and machine and tool salesmen. With additional experience students may aspire to positions as industrial supervisors, machine and tool designers, tool buyers, production expeditors, and cost estimators.

A cooperative work program with industry may be made available to the student, to be worked out on an individual student basis.

FRESHMAN YEAR

| First Semester | Second Semester |
|--|--|
| (2) MET 180 (Materials and Processes) | (3) MET 200 (Power Systems) |
| (3) EG 110 (Drafting Fundamentals) | (2) MET 204 (Production Drawing) |
| (5) MA 151A (Elementary Mathematics for Engineering and the Physical Sciences) | (4) MET 212 (Mechanics of Materials) |
| (4) GNT 136 (Physics: Mechanics and Heat) | (2) MET 256 (Material Fabrication) |
| (3) ENGL 101 (English Composition I) | (3) MA 223A (Introductory Analysis I) |
| | (4) GNT 176 (Physics: Electricity, Sound, and Light) |
| <hr/> (17) | <hr/> (18) |

SOPHOMORE YEAR

| Third Semester | Fourth Semester |
|--|--|
| (4) MET 216 (Machine Elements) | (3) EET 216 (Electrical Machines and Controls) |
| (3) MET 232 (Dynamics) | (4) IET 104 (Industrial Organization and Products) |
| (3) MA 224A (Introductory Analysis II) | (3) PSY 370 (Psychology in Business and Industry) |
| (3) GNT 220 (Technical Report Writing) | (4) Technical Electives (2) |
| (3) SPE 114 (Fundamentals of Speech Communication) | (3) Non-technical Electives |
| (2) Technical Electives | |
| <hr/> | <hr/> |
| (18) | (17) |

NURSING

This program of nursing education provides a means of correlating the philosophy and standards of nursing education with those of general education. The over-all standards and policies of the University apply to the program in nursing as they do to the other educational programs within the University. The associate degree program is designed to fulfill the educational needs of qualified high school graduates who want to (1) prepare for nursing in a relatively short time and (2) study in a multi-purpose collegiate institution where they share the responsibilities, privileges, intellectual, and social experiences with all other students. Clinical practice experiences are obtained in nearby cooperating hospitals. The University nursing faculty selects, supervises, and evaluates all learning experiences.

Graduates are prepared to give care to patients as beginning general duty nurses, drawing upon their scientific knowledge and understanding of human behavior and needs. They are prepared to develop satisfactory relationships with people, to cooperate and share responsibility for their patients' welfare with other members of the nursing and health staff, and to be self-directive in learning from experience as practicing nurses.

Graduates of the associate degree program in nursing are eligible for state examinations for licensure as registered nurses.

All nursing courses must be taken in sequence.

FRESHMAN YEAR

| First Semester | Second Semester |
|--|---|
| (2) BIOL 201 (Biology of Man) | (2) BIOL 203 (Biology of Man) |
| (1) BIOL 202 (Laboratory in Human Biology) | (1) BIOL 204 (Laboratory in Human Biology) |
| (3) CHM 119 (General Chemistry) | (3) BIOL 220 (Introduction to Microbiology) |
| (3) PSY 120 (Elementary Psychology) | (3) PSY 235 (Child Psychology) or |
| (3) F&N 303 (Essentials of Nutrition) | (3) CDFL 210 (Child Development) |
| (5) NT 110 (Introduction to Nursing) | (3) PCOL 201 (Pharmacology) |
| | (5) NT 120 (Maternal and Child Nursing) |
| <hr/> | <hr/> |
| (17) | (17) |

SOPHOMORE YEAR

| Third Semester | Fourth Semester |
|--|---|
| (3) SOC 100 (Introduction to Sociology) | (3) NT 250 (Seminar in Nursing) |
| (3) ENGL 101 (English Composition I) | (7) NT 215 (Medical and Surgical Nursing II) |
| (7) NT 214 (Medical and Surgical Nursing I) | (4) NT 231 (Psychodynamic and Psychiatric Nursing II) |
| (4) NT 230 (Psychodynamic and Psychiatric Nursing I) | (3) Elective |
| <hr/> (17) | <hr/> (17) |

CERTIFICATE PROGRAMS

The certificate programs are designed primarily for the more mature part-time student through consultation with representatives from labor, industry, and the service areas of our society.

These are intensive and practical programs of less than 40 semester hours of credit. Advancement in each of these programs can be varied to suit the needs of the individual students who may take one, two or three courses each semester. The average part-time student can complete any one of the programs within three years.

Enrollment is on the basis of a program carefully tailored to meet individual student needs and vocational objectives through consultation with an experienced counselor. Changes in the student's program arising out of new work assignments or changes in vocational objective may be worked out with his counselor.

Practical Industrial Electronics

This program is a laboratory type course of study with two three-hour classes a week. One hour of explanation of electrical principles and demonstration of the use of instruments is presented at each class meeting, accompanied by two hours of laboratory experience. Training is obtained by the actual use of modern electronic instruments. Trouble-shooting techniques are emphasized.

Training in mathematics is desirable, but it is not necessary that students have formal training in algebra, geometry, and trigonometry. The necessary mathematics is taught in the course. Students that pass an advanced standing examination will be admitted to the second semester or the second year course. High school graduation is not required.

FIRST YEAR

First Semester

- (4) EET 15 (Basic Electricity)
- Electrical terms; units; symbols; schematics; Ohm's Law; use of voltmeters, ammeters, and ohmmeters; series and parallel circuits, magnetism, inductance, capacitance. Basic principles of alternating current, generators, capacitive reactance, inductive reactance, impedance, phasors, power factor, resonance, use of VTVM and oscilloscope.

Second Semester

(4) EET 23 (Transistor and Vacuum Tube Fundamentals)

Transistor fundamentals, semiconductor diodes, vacuum tube diodes, triodes, tetrodes, pentodes; use of oscilloscope, audio oscillators, and voltmeters in electronic circuits such as amplifiers, power supplies, and oscillators.

SECOND YEAR

Third Semester

(4) EET 39 (Electronic Circuits)

Transistors and vacuum tubes used in circuits. Power supply circuits, audio amplifiers, RF amplifiers, oscillators, modulation, AM transmitters and receivers, FM transmitters and receivers. Special electronic circuits such as clippers, clammers, multivibrators, blocking oscillators, sweep circuits. Trouble shooting techniques.

Fourth Semester

Two options are available:

Industrial Control Electronics

(4) EET 41 (Electronic Control Circuits)

Rotating electrical machinery and control circuits, servomechanism components such as error detectors, amplifiers, detectors, magnetic amplifiers. Specialized electronic control circuits.

Communications Electronics

(4) EET 45 (Communications Electronics)

Principles of television, UHF, microwaves, transmitters and receivers, FCC Exam information, trouble shooting techniques.

Professional Foremanship

The Professional Foremanship Certificate Program is an intensive and practical curriculum equivalent to 37 semester hours. It is intended to provide foremen with the professional education needed to handle the many supervisory and technical problems which they meet daily in technical, communications, and human relations fields.

The program has been set up by representatives of industry, professional foremen's organizations, and the University. It is designed to meet the needs of management, which is vitally concerned with training foremen for positions of leadership.

The Professional Foremanship Program is the certificate program counterpart of the industrial engineering technology two-year curriculum. Course selection is on the basis of a program worked out with the counselor assigned and is carefully tailored to individual needs.

Admission to the program is granted to those mature adults already in management positions who meet the entrance standards and requirements. All other applicants must complete the same procedures for admission as applicants to the associate degree programs in the School of Technology. These procedures are outlined on pages 6 to 9. Any specific questions concerning the program should be directed to the Office of Admission at the North Central Regional Campus.

REQUIRED COURSES

- (4) IET 104 (Industrial Organization and Production)
- (2) GNT 120 (Psychology)
- (3) IS 152 (Human Relations in Industry)
- (3) SPE 114 (Fundamentals of Speech Communication)

(12)

Optional Courses—14 semester hours maximum chosen from one or a combination of the following groups:

Group I—14 semester hours maximum

Communications 10 hours maximum
 English and Report Writing 7 hours maximum
 Advanced courses in Speech 3 hours maximum
 Economics and Labor Relations . . . 6 hours maximum
 Physical Sciences 12 hours maximum

Group II—8 semester hours maximum

Courses specific to two-year certificate curricula—8 semester hours maximum. Courses from one or more technologies may be elected in this group provided that (1) they relate directly to the individual's duties, responsibilities, or line of promotability; and (2) prior approval of the counselor and the head of the department administering the program is obtained.

MANAGEMENT EXPERIENCE

(Equivalent to 12 semester hours)

Before receiving the Professional Foremanship Certificate, the candidate must have had two years of successful experience in the management field. Satisfaction of this requirement is met by a confirming letter from the managerial employer under whom the candidate worked. Formal credit is not established for this work, but it is considered equivalent to 12 semester hours of credit in the Professional Foremanship program.

BACHELOR OF SCIENCE DEGREE IN INDUSTRIAL EDUCATION

The Department of Industrial Education consists of two sections: industrial arts, and vocational-technical. Each section is concerned with one or more programs and activities designed to equip men and women for entrance into career fields that require an intellectual base upon which practical applications of the knowledge gained in the humanities, the sciences, and the technologies depend. Thus, the courses provided offer a combination of theoretical and practical education.

Graduate and undergraduate programs which prepare students for entrance into a variety of careers in business, education, government, and industry are available. Students may elect to pursue an option or major which will lead to the degree of Bachelor of Science in Industrial Education with a specialty in one of the following areas:

1. Applied Technology Teaching (Junior College and Technical Institute Teaching)
2. Industrial Arts Teaching
3. Vocational-Industrial Teaching

CORE REQUIREMENTS FOR B.S.I.ED.

All of the students are required to take a certain number of courses which are the same. These "core requirements" form a sound, basic program for those people interested in earning the degree of Bachelor of Science in Industrial Education.

- (1) IED 110 (Introduction to Industrial Education)
- (2) IED 115 (General Metals)
- (2) IED 117 (General Woodworking)
- (6) ENGL 101 and 102 (English Composition I and II)
- (3) SPE 114 (Fundamentals of Speech Communication)
- (3) PSY 120 (Elementary Psychology)
- (3) PHIL 210 (Introduction to Philosophy)
- (3) HIST 252 (The United States and Its Place in World Affairs)
- (3) POL 101 (Introduction to Government)
- (3) ECON 210 (Principles of Economics)
- (3) SOC 100 (Introductory Sociology)
- (6) MA 153 and 154 (Algebra and Trigonometry I and II)
- (6) CHM 113 and 114 (Introductory Chemistry)
- (8) PHYS 220 and 221 (General Physics)
- (4) EG 114 and 115 (Drafting I and II)
- (2) MET 215 (Welding)
- (2) EET 214 (Electricity Fundamentals)

BACHELOR OF SCIENCE DEGREE FOR A.A.S. TECHNICIANS

Through its School of Technology, the University has recognized the need of the graduate of two-year Associate in Applied Science degree and similar curricula for further and broader education. New third- and fourth-year curricula have been especially developed to lead to the Bachelor of Science degree for such students.

The baccalaureate program provides the general education which permits the graduate to engage in a significantly broader span of activities. It provides a very important background in interdisciplinary studies and creates a greater potential for the graduate. It also enables the graduate to do additional work in his area of specialization.

This program was designed by the School of Technology with the active assistance of industry. It is offered to enable the engineering technician, and similar students who have completed an associate degree program, to improve his performance and increase significantly his promotability.

Graduate Study

AT THE NORTH CENTRAL REGIONAL CAMPUS, graduate courses of instruction are equivalent in content and quality to courses offered on the Lafayette campus which carry the same numbers and credit. Teaching personnel in these programs are either regular staff members of the University faculty or have comparable academic and teaching qualifications as determined by the heads of the departments in the subject-matter area.

Any person who wishes to pursue an advanced degree at Purdue University should make application for regular admission to the Graduate School at the earliest possible date. Regularly admitted students are assigned an adviser and follow a formal plan of study within a department of the University.

Persons wanting to take individual graduate courses should make application for temporary admission with the Admissions office at the North Central Regional Campus. Temporary admission is intended for the student who does not plan to work toward an advanced degree at Purdue.

Courses for graduate credit are administered through the University Extension Administration at the North Central Regional Campus. Qualified students who complete individual courses at the North Central Regional Campus are granted full graduate credit subject to the same restrictions as exist for courses on the Lafayette Campus, namely, that only courses which meet the approval of the student's advisory committee and the dean of the Graduate School may be used in the plan of study for the master's degree.

COOPERATIVE PROGRAM IN TEACHER EDUCATION (CPTE)

The Cooperative Program in Teacher Education is a new venture in cooperation among the four state institutions of higher learning. The CPTE represents firm institutional commitments which will permit teachers to make long-range plans for their graduate degree programs.

The common elements of the master's degree program of each institution have been identified. Some of the courses which have equivalents at each institution have been selected to be offered over a three-year sequence in the northwest region of Indiana at four locations: the North Central Regional Campus of Purdue University at Westville, the Gary Campus of Indiana University, the Calumet Campus of Purdue University at Hammond, and the South Bend-Mishawaka Campus of Indiana University at South Bend. These courses carry credit that is acceptable to each institution on an interchangeable basis.

Resident faculty, who will have their offices in the location mentioned above, will be provided by the state colleges and universities. In addition, the resources of each institution are being utilized to insure a quality program in teacher education. Curriculum analysis and coordination, demonstration, and field testing of new and promising approaches to the graduate education of teachers are essential elements of the CPTE.

To enroll in the CPTE Program, a student must first obtain a letter of admission from one of the four state schools—Ball State University, Indiana State University, Indiana University, or Purdue University. He should then register at the location where the course is offered with the institution where credit is desired.

The schedule for each semester will be announced separately.

Further information may be obtained by contacting the Admissions Office at the North Central Regional Campus.

For a description of courses please refer to the bulletin of the appropriate school.

ADMINISTRATIVE AND INSTRUCTIONAL STAFF

- GEORGE R. AVERITT (1961).....Lecturer
in Economics
A.B., Indiana, 1953.
- JESS M. BARTHOLOMEW (1966)...Instructor
in Electrical Engineering Technology
A.B., William Jewell, 1925.
- LOUIS E. BEDNAR (1965).....Instructor
in Mathematics
B.S., Ed., Western Illinois, 1963; M.S., North-
ern Illinois, 1965.
- JOHN K. BLACK (1967).....Business
Administrator
B.S.I.M., Purdue, 1964.
- JAMES R. BLACKWELL (1965).....Assistant
Dean of North Central Regional
Campus and Assistant Professor
B.S., Purdue, 1941; M.A., Louisville, 1953;
M.B.A., George Washington, 1964.
- RAYMOND M. BOBILLO (1962).....Assistant
Professor in Industrial Engineering
Technology
B.S., Ball State, 1950.
- ANITA O. BOWSER (1956).....Instructor in
Political Science and History
A.B., Kent State, 1945; LL.B., William Mc-
Kinley School of Law, 1949.
- WILLIAM C. BOYD (1966).....Coordinator
of Continuing Education and
Student Affairs Officer
B.M., Michigan, 1936; M.Mus., Michigan
State, 1941.
- THOMAS F. BRADY (1965).....Lecturer in
Industrial Engineering Technology
B.S., Indiana, 1958.
- EDWIN F. BUCK (1966).....Assistant
Professor of Speech
B.A., Emmanuel Missionary College, 1944;
M.A., Andrews, 1964.
- WILLIAM H. DAUBERMAN (1966)...Visiting
Instructor in Electrical Engineering
Technology
B.S., Bucknell, 1938; M.S., Illinois Institute of
Technology, 1964.
- JAMES C. DECK (1966).....Lecturer in
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B.S., Purdue, 1962.
- ANGELA J. DELVECCHIO (1966).....Associate
Professor of Nursing
B.S., Chicago, 1945; M.A., Columbia, 1953;
M.Ed., 1966.
- PHYLLIS K. DURAND (1966).....Lecturer
in Speech
B.A., Valparaiso, 1951; M.A., Indiana, 1966.
- MONA R. FIELDS (1966).....Assistant
Professor of Nursing
B.S., Texas Christian, 1959; M.S., Colorado,
1966.
- SANFORD Z. FRIEDMAN (1966)...Lecturer in
Architectural Engineering Technology
B. of Arch., Miami, 1955; M. of City Design,
1957.
- JEENE W. GAINES (1964)...Associate Professor
of Psychology
B.A., Iowa, 1955; M.S., Purdue, 1956; Ph.D.,
1959.
- ANN W. GOODFELLOW (1966)...Lecturer in
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A.B., Chicago, 1950; M.A., Indiana, 1962.
- FRANCIS M. GOURLEY (1948)....Lecturer in
Zoology
B.S., Illinois, 1935; M.S., 1940.
- HUSSEN HAKIM (1963).....Lecturer in
Modern Languages
B.A., Indiana, 1958; M.A., Ball State, 1960.
- EVELYN P. HAYES (1966).....Assistant
Professor of Nursing
B.S., Boston College, 1961; M.S., 1966.
- HERBERT HECKENDORN (1965)...Lecturer in
Industrial Engineering Technology
B.B.A., Clarkson College of Technology, 1956.
- ROBERT F. HOOPER (1966).....Lecturer in
Industrial Psychology
B.S., Kent State, 1949; LL.B., William McKin-
ley School of Law, 1956.
- ROBERT D. HUMMEL (1964).....Assistant
Professor of Modern Languages
B.S., Purdue, 1958; M.A.T., 1963.
- ELLIOTT C. HUTTON (1961)...Lecturer in
Mechanical Engineering Technology
B.S., Iowa State Teachers, 1936; M.S., Oregon
State, 1939.
- HOWARD JABLON (1966).....Assistant
Professor of History
B.A., Hofstra, 1961; M.A., Rutgers, 1962;
Ph.D., Rutgers, 1967.
- JOHN JOHNSTON (1965).....Lecturer in
Chemistry
B.S., College of Technology, London, 1958.
- DONALD JUNCKER (1966).....Lecturer in
Industrial Engineering Technology
B.S.I.E., Purdue University, 1963; M.S.I.E.,
1964.
- DAVID P. KONZELMANN (1966)...Admissions-
Registration Officer
B.S., Butler, 1960; M.S.Ed., Purdue, 1964.
- FREDERICK R. LISARELLI (1946)...Associate
Professor of Drafting and Mechanical
Engineering Technology
B.S., Alabama, 1938; M.A., Columbia, 1946.
- BARBARA M. LOOTENS (1965)...Instructor
in English
A.B., Indiana, 1950.
- ELAINE J. MADDEN (1963).....Lecturer
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B.S., Valparaiso, 1961.
- SHABAZ K. MALLICK (1966).....Assistant
Professor of Education
B.A., Central Training College, LaHore, 1959;
M.S., 1961; Ph.D., Indiana, 1964.
- ROBERT J. MULLIGAN (1966)...Lecturer in
Freshman Engineering
M.E., Stevens Institute, 1952.
- HOWARD D. MURDOCK (1946).....Associate
Professor of Chemistry
B.S., Notre Dame, 1937; M.A., 1940.

- THOMAS R. NUNN (1946).....Associate
Professor of English
A.B., Central Michigan, 1935; A.M., Michigan,
1940.
- PETER O. PERETTI (1965).....Instructor
in Sociology
B.A., Lake Forest, 1962; M.A., Roosevelt, 1964.
- VERNER J. RAELSON (1966).....Assistant
Professor of Physics
B.A., Valparaiso, 1940; LL.B., 1942; M.S.,
Chicago, 1955.
- JAMES H. REED (1957).....Lecturer in
Industrial Engineering Technology
B.S., Eastern Illinois, 1950; M.S., Wisconsin,
1951.
- KARL RICHTER (1965).....Lecturer in
Philosophy
Frederich Wilhelm, 1933; Jewish Theological
Seminary, 1934; D.D., Hebrew Union Col-
lege, 1960.
- ROBERT F. SCHWARZ (1952).....Dean and
Director of the North Central
Regional Campus
A.B., Indiana, 1950; M.S., 1960.
- DENNIS H. SORGE (1965).....Lecturer in
Mathematics
B.S., Purdue, 1962.
- GORDON H. SQUIRES (1966).....Lecturer in
Industrial Engineering Technology
B.A., Michigan State, 1949; M.B.A., 1965.
- JOHN J. STANFIELD (1964).....Lecturer
in English
B.A., Indiana, 1951; M.A., 1961.
- JOHN W. STARR (1966).....Lecturer in
Education
B.S., Colorado State College of Education,
1948; M.A., 1953; Ed.D., 1955.
- LAWRENCE T. TANBER (1952)...Lecturer in
Mechanical Engineering Technology
A.T.A., Purdue, 1951.
- RICHARD L. TAYLOR (1966).....Lecturer in
Architectural Engineering Technology
B.S.C.E., Purdue, 1963; M.S.C.E., 1965.
- ANGELO A. VITELLO (1967).....Assistant
Professor of Education
B.S., Purdue, 1952; M.S. Indiana State, 1956.
- RICHARD K. WAGENBLAST (1965)..Lecturer
in Physical Science (Technology)
B.S., Illinois Institute of Technology, 1951.
- MARGARETHA W. WOODARD (1966).....
Associate Professor of Biology
B.S., University of South Africa, 1943; M.S.,
1944; Ph.D., Virginia, 1949.
- MELVIN YODER (1956).....Lecturer in
Industrial Technology
A.B., Bluffton, 1941.

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UNIVERSITY EXTENSION COUNCIL

1967-68

Ex-Officio

C. H. LAWSHE, Ph.D.....Dean of University Extension
D. A. SCOTT, Ph.D.....Associate Dean of University Extension
G. W. BERGREN, M.S.M.E.....Assistant Dean of University Extension
R. F. SCHWARZ, M.A.....Dean and Director North Central Campus
E. L. BUTZ, Ph.D.....Dean of the School of Agriculture
H. G. DIESSLIN, Ph.D.....Associate Dean of the School of Agriculture and
Director of Cooperative Extension Services
L. O. NELSON, Ph.D.....Director of Conferences and Continuation Services
F. K. BURRIN, Ph.D.....Director of Summer Sessions and Evening Classes

Appointed by the President, for One Year

RUSSELL COSPER, Ph.D.....Head of the Department of English
W. O. FORSTER, Ph.D.....Head of Department of History
G. R. MACLANE, Ph.D.....Head of the Division of Mathematical Sciences
E. C. STEVENSON, Ph.D.....Head of Department of Horticulture
D. H. WALTHER, Ph.D.....Head of Department of Modern Languages

Appointed by the President, for Two Years

RALPH G. BEELKE, Ph.D.....Head of the Department of Art and Design
MARY FUQUA, Ph.D.....Head of the Department of Foods and Nutrition
WILLIAM H. HAYT, JR., Ph.D.....Special Assistant (Television);
Professor of Electrical Engineering
J. L. KRIDER, Ph.D.....Head of the Department of Animal Sciences
E. W. NOLAND, Ph.D.....Head of the Department of Sociology
MAX D. STEER, Ph.D.....Head of the Department of Audiology and
Speech Science

Appointed by the President, for Three Years

C. R. HICKS, Ph.D.....Head of the Department of Education
GERALD W. ISAACS, Ph.D.....Head of the Department of Agricultural
Engineering
BOYD R. KEENAN, Ph.D.....Head of the Department of Political Science
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